

Figure 1

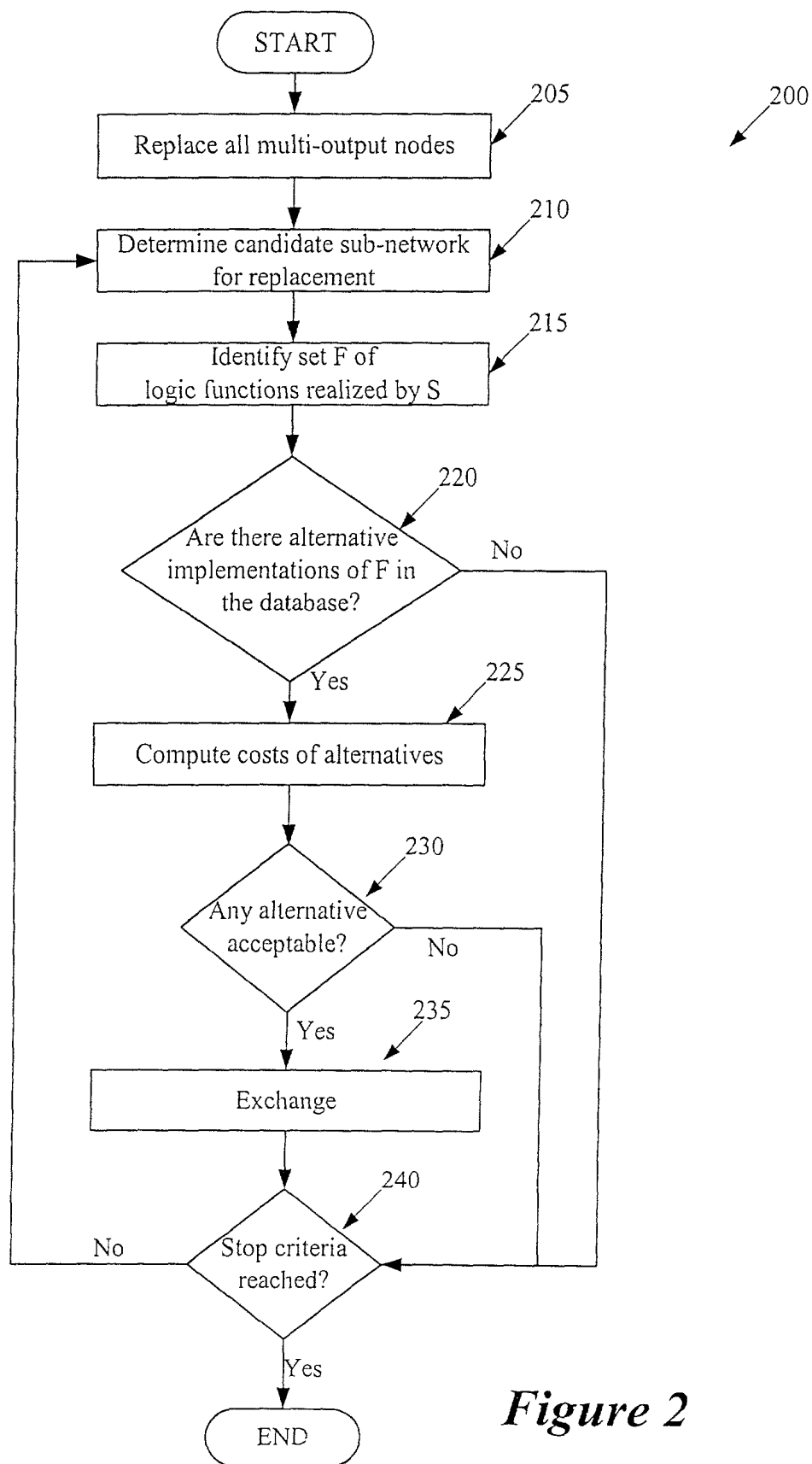


Figure 2

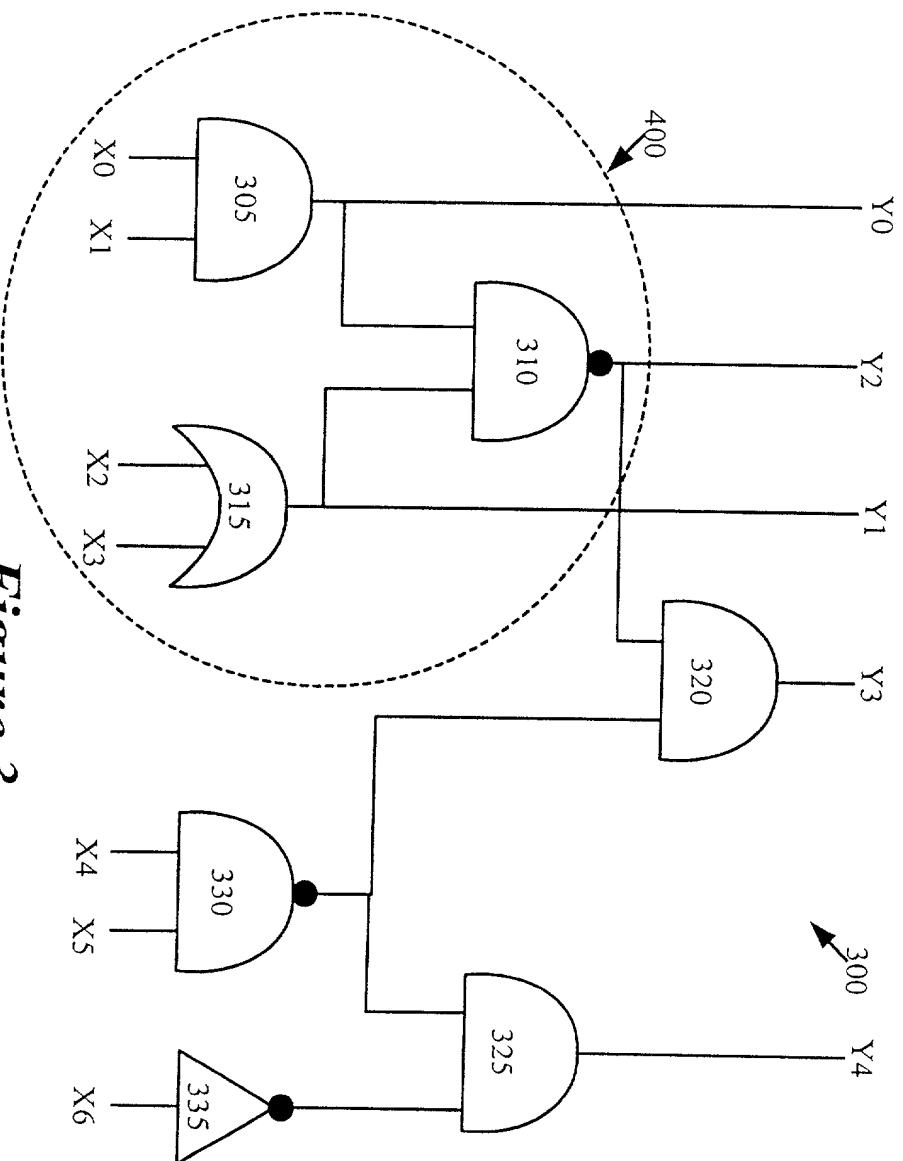


Figure 3

Figure 3 is a logic circuit diagram. It features seven inputs: X_0 , X_1 , X_2 , X_3 , X_4 , X_5 , and X_6 . The outputs are Y_0 , Y_1 , Y_2 , Y_3 , and Y_4 . A dashed oval labeled 400 encloses a sub-circuit containing three components: an AND gate 305 with inputs X_0 and X_1 ; an AND gate 310 with inputs from the output of 305 and the output of OR gate 315; and an OR gate 315 with inputs X_2 and X_3 . The output of 305 is also Y_0 . The output of 310 is Y_2 . The output of 315 is Y_1 . An AND gate 320 has inputs from Y_1 and Y_2 , with output Y_3 . An AND gate 330 has inputs X_4 and X_5 , with output X_6 . An AND gate 325 has inputs from X_6 and the output of 330, with output Y_4 . A diagonal arrow labeled 300 points to Y_4 .

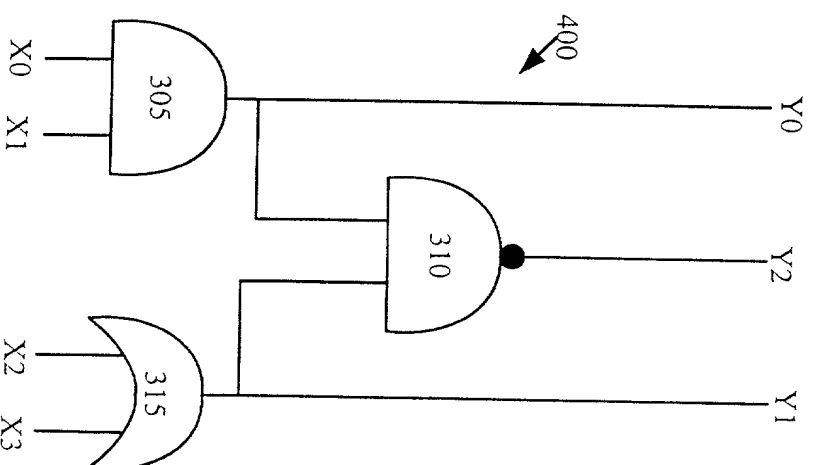


Figure 4

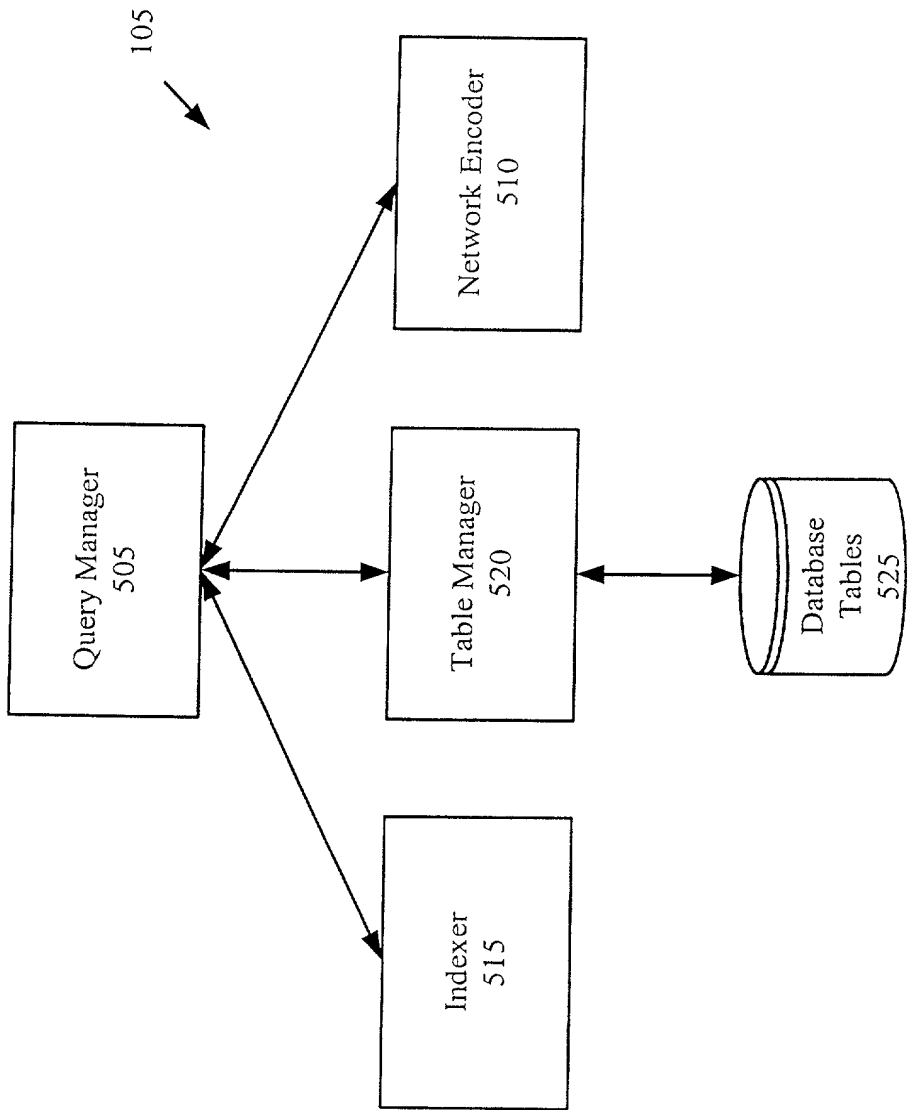


Figure 5

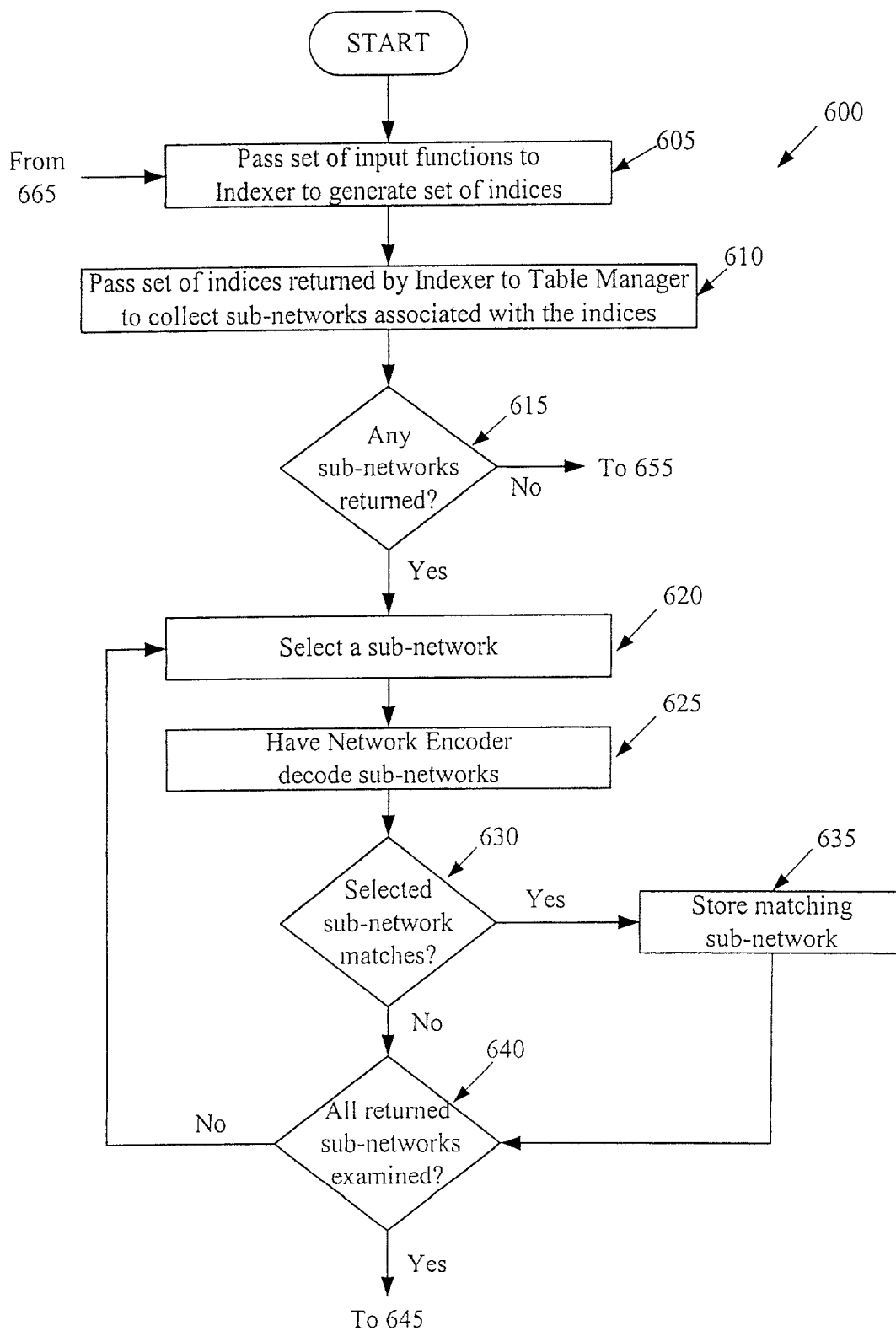


Figure 6A

Figure 6: *Figure 6A*
Figure 6B

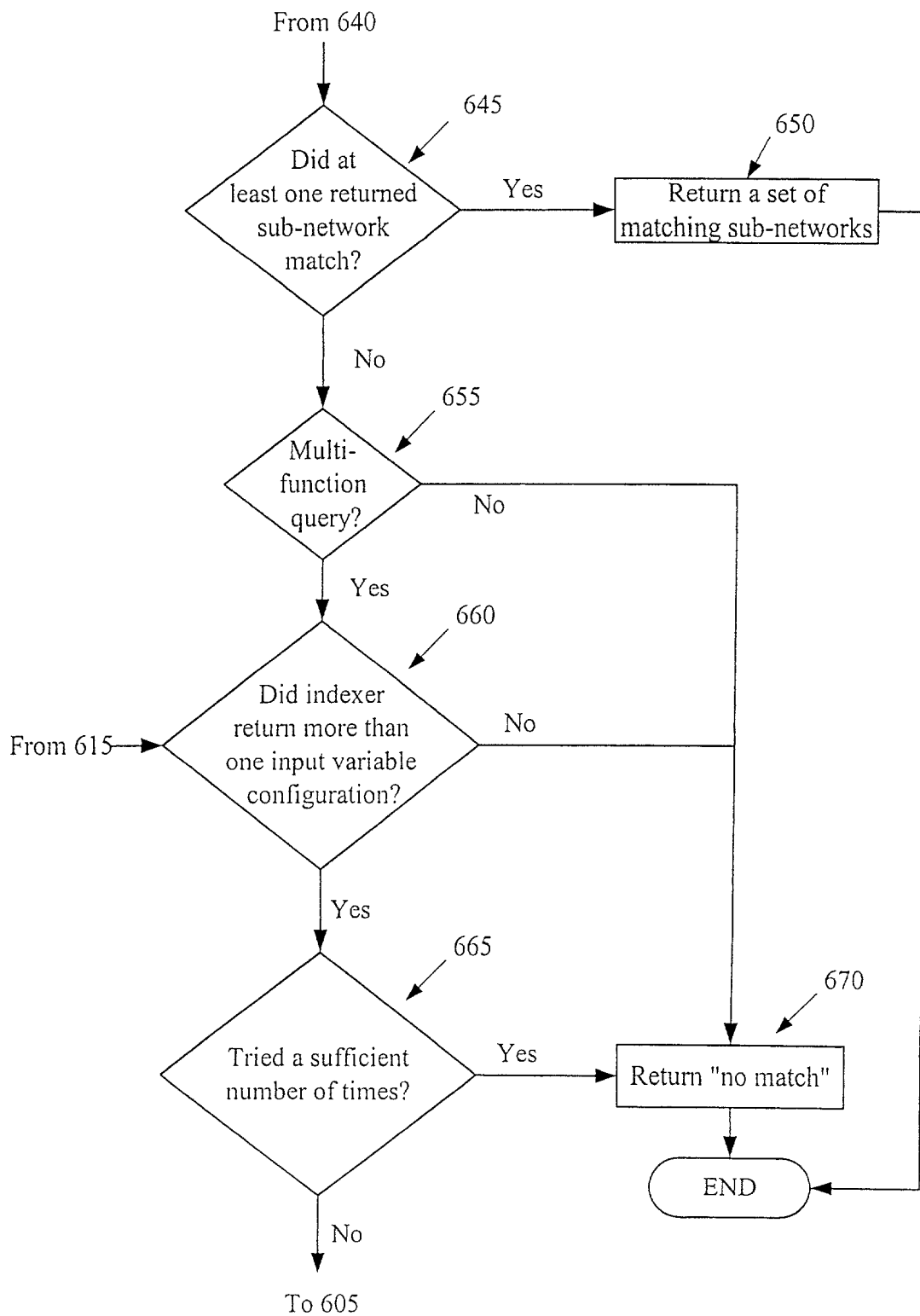


Figure 6B

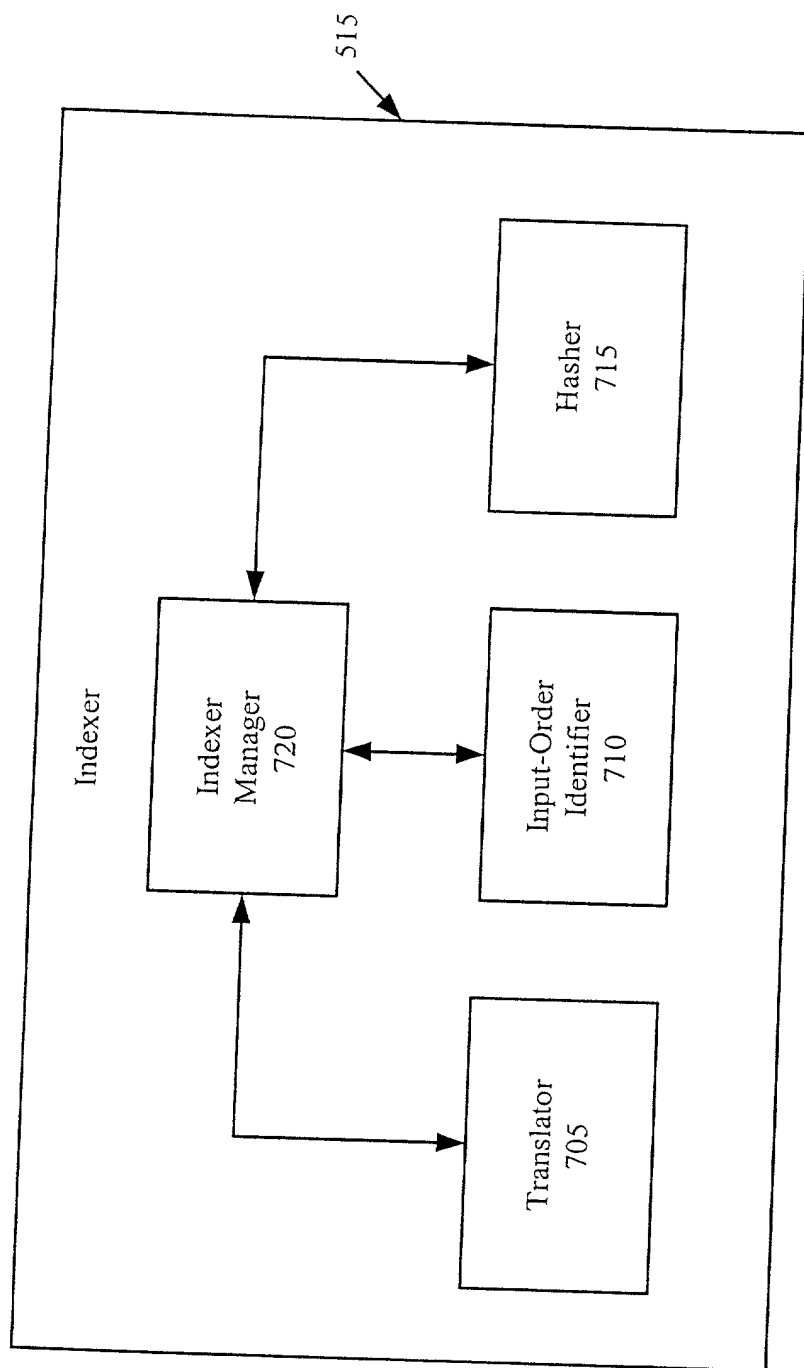


Figure 7

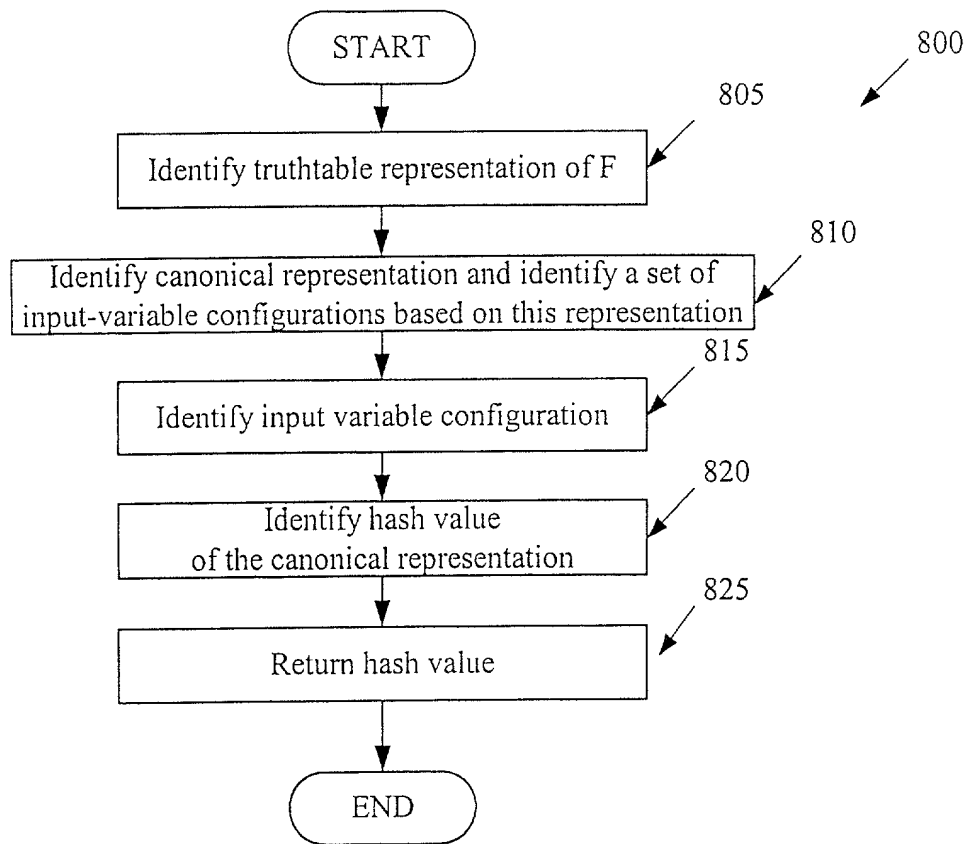


Figure 8

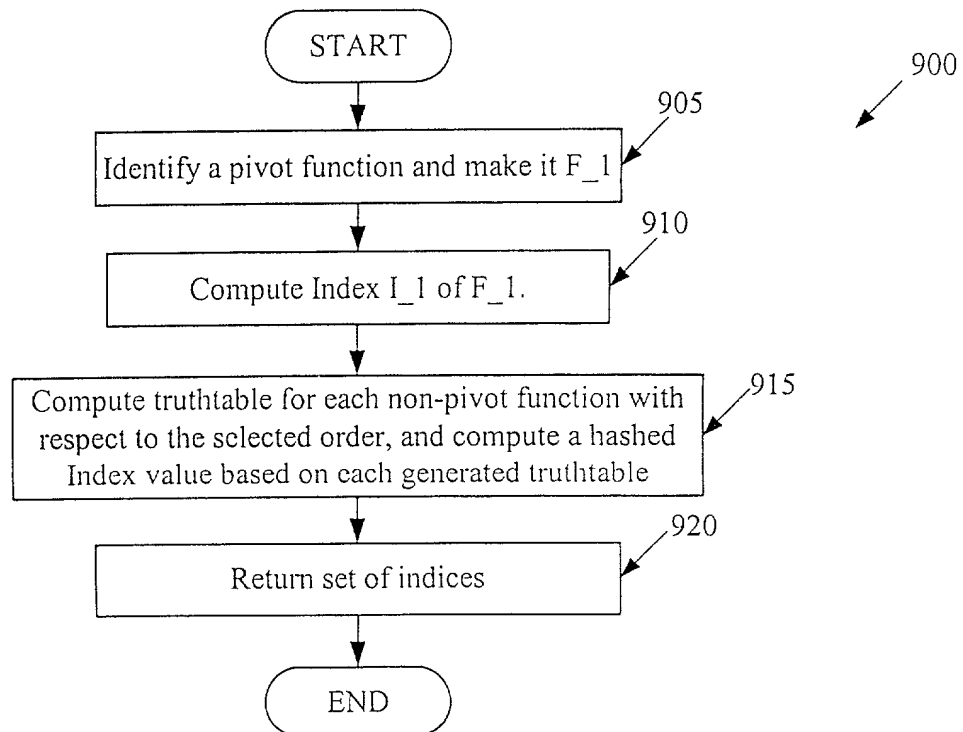


Figure 9

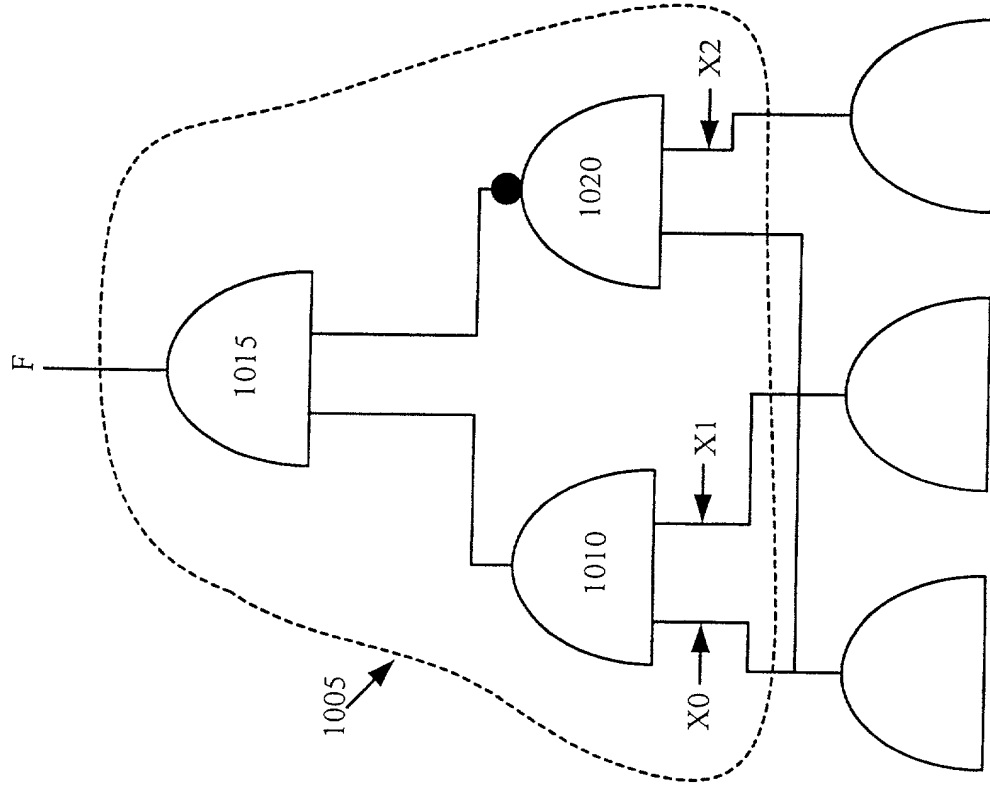


Figure 10

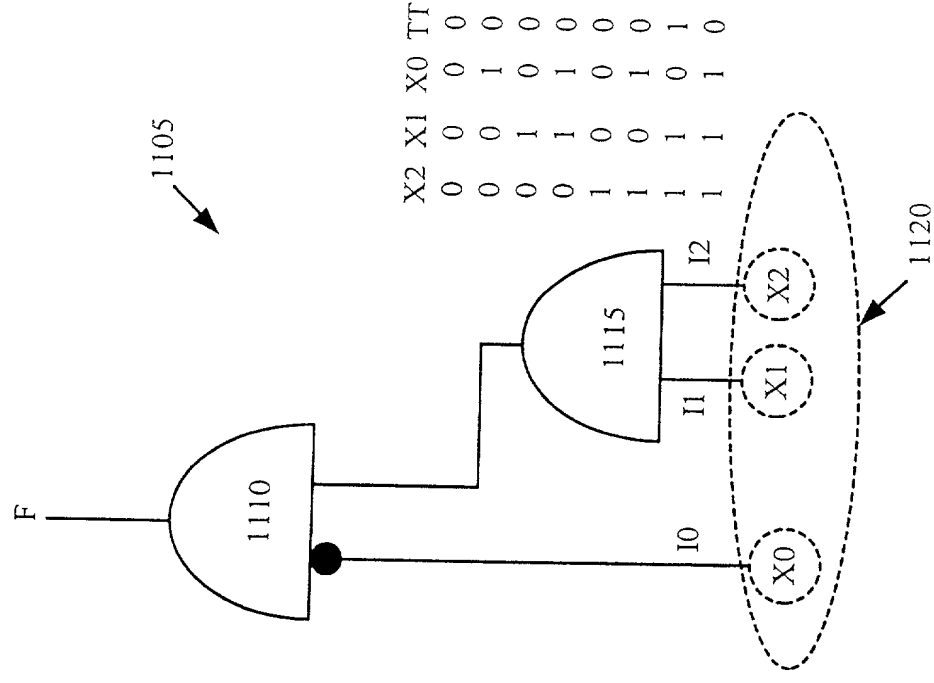


Figure 11

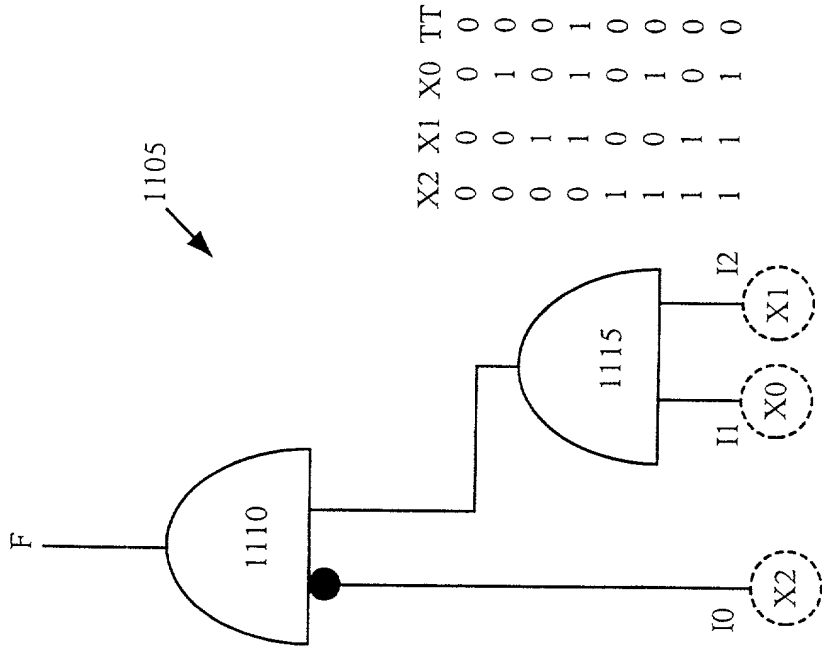


Figure 12

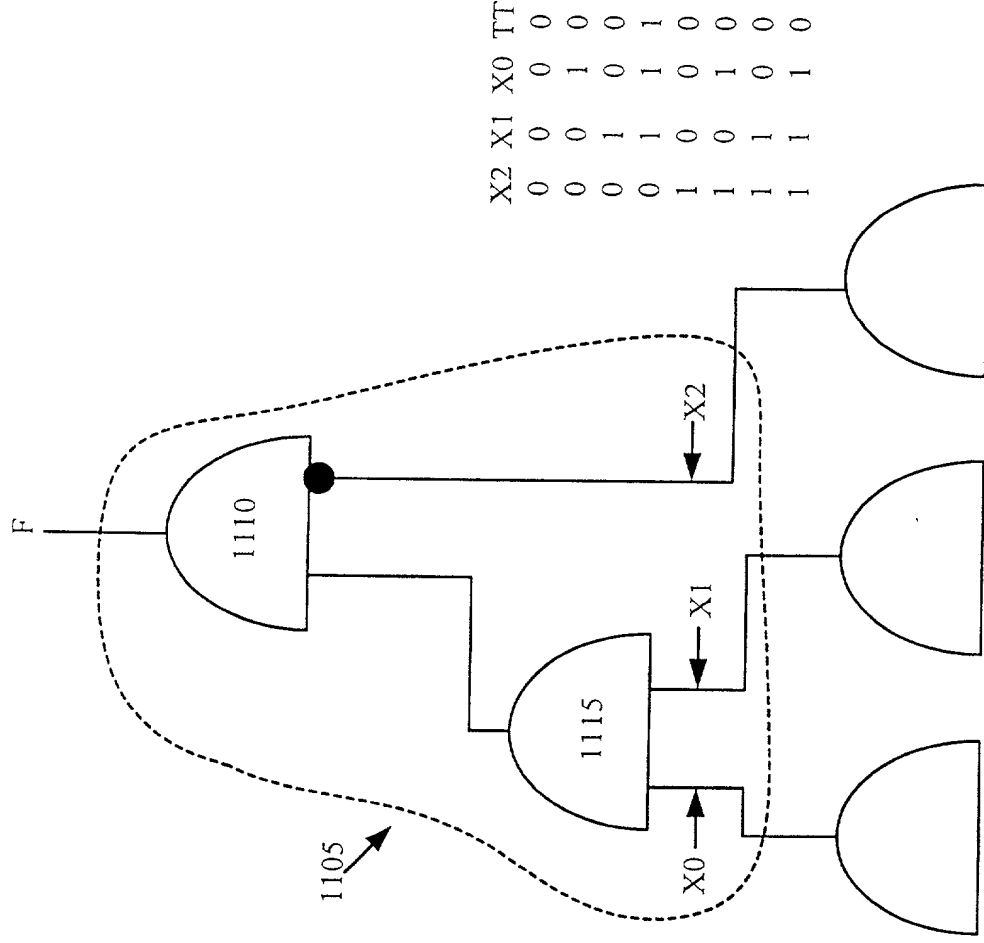


Figure 13

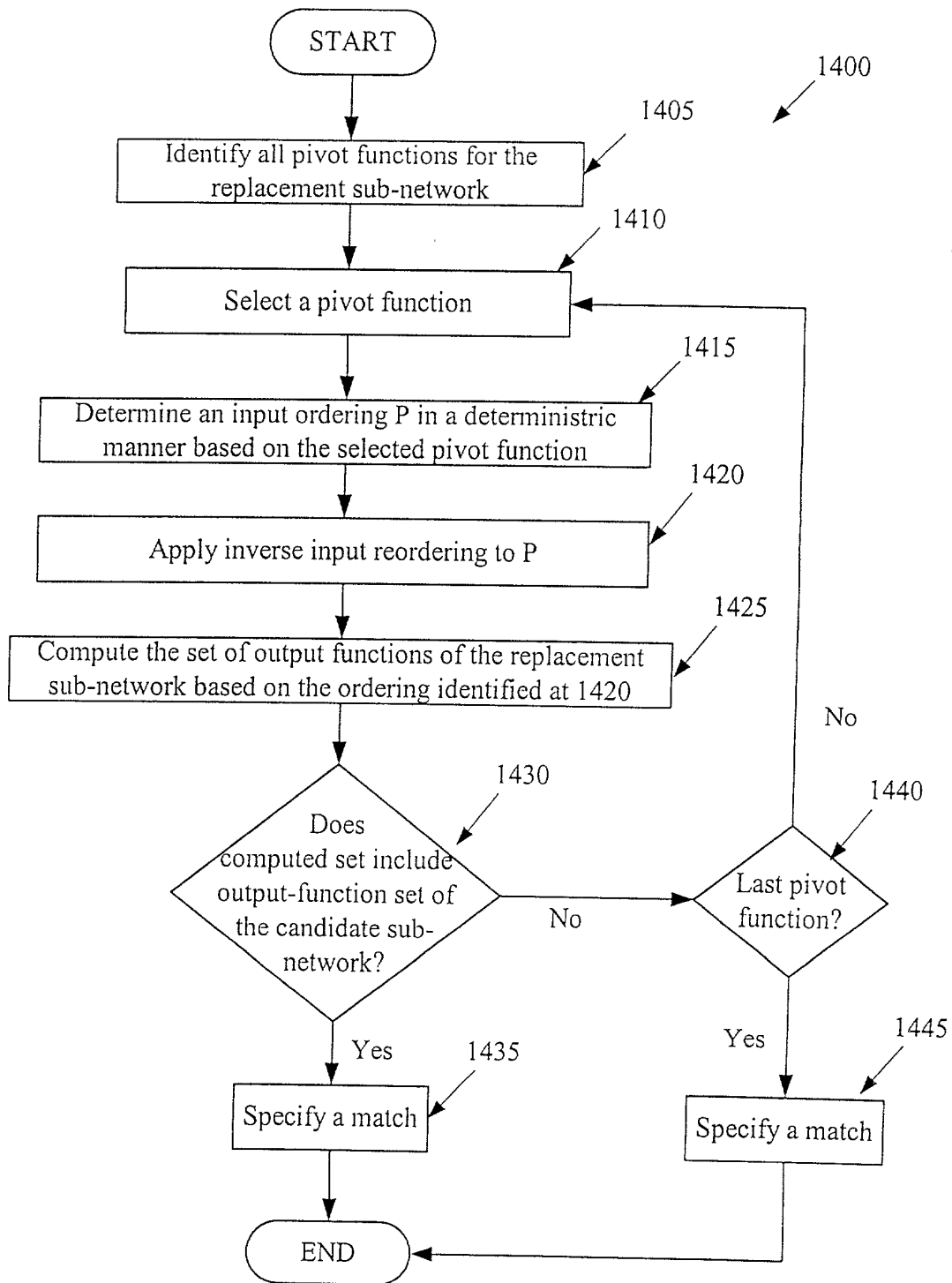


Figure 14

FIG. 15 is a schematic diagram of a data structure 1500, which is a table with four columns and five rows. The columns are labeled 'Pivot Index', 'Secondary Index', 'Network Indices', and 'Row Length'. The rows are labeled 'Pivot Index #1', 'Pivot Index #2', 'Pivot Index #X', 'Pivot Index #Y', and 'Pivot Index #Z'. The 'Pivot Index' column contains values 'Pivot Index #1', 'Pivot Index #2', 'Pivot Index #X', 'Pivot Index #Y', and 'Pivot Index #Z'. The 'Secondary Index' column contains values 'Index #T', 'Index #J', 'Index #H', 'Index #G', and 'Index #F'. The 'Network Indices' column contains values 'N#U, ..., N#V', 'N#D, ..., N#E', 'N#F, ..., N#G', 'N#H, ..., N#I', and 'N#J, ..., N#K'. The 'Row Length' column contains values 'Length A', 'Length B', 'Length C', 'Length D', and 'Length E'. Dashed arrows indicate relationships between the 'Pivot Index' column of the table 1500 and the 'Pivot Index' column of the table 1505. Specifically, dashed arrows point from 'Pivot Index #1' in table 1500 to 'Pivot Index #1' in table 1505, and from 'Pivot Index #X' in table 1500 to 'Pivot Index #X' in table 1505.

1525 Pivot Index	1545 Secondary Index	1550 Network Indices	1540 Row Length
Pivot Index #1	Index #T	N#U, ..., N#V	Length A
• • •	• • •	• • •	• • •
Pivot Index #1	Index #J	N#D, ..., N#E	Length B
• • •	• • •	• • •	• • •
Pivot Index #X	Index #H	N#F, ..., N#G	Length C

1525 Pivot Index	1530 First Row	1535 Last Row
Pivot Index #1	Row #P	Row #Q
Pivot Index #2	Row #R	Row #S
• • •	• • •	• • •
Pivot Index #X	Row #Y	Row #Z

Figure 15

FIG. 16 is a block diagram of a data structure 1550, which is a table with four columns and four rows. The columns are labeled "Graph Table Index", "Encoded Graph of Sub-Network", "Graph Attributes", and "Function". The rows are labeled "GTI#J", "GTI#K", "GTI#L", and "GTI#M". The "Function" column contains "F#U", "F#R", "F#M", and "F#M". The "Encoded Graph of Sub-Network" column contains "EG#J", "EG#K", "EG#L", and "EG#L". The "Graph Attributes" column contains "EGA#J", "EGA#K", "EGA#L", and "EGA#L". The "Graph Table Index" column contains "GTI#J", "GTI#K", "GTI#L", and "GTI#M".

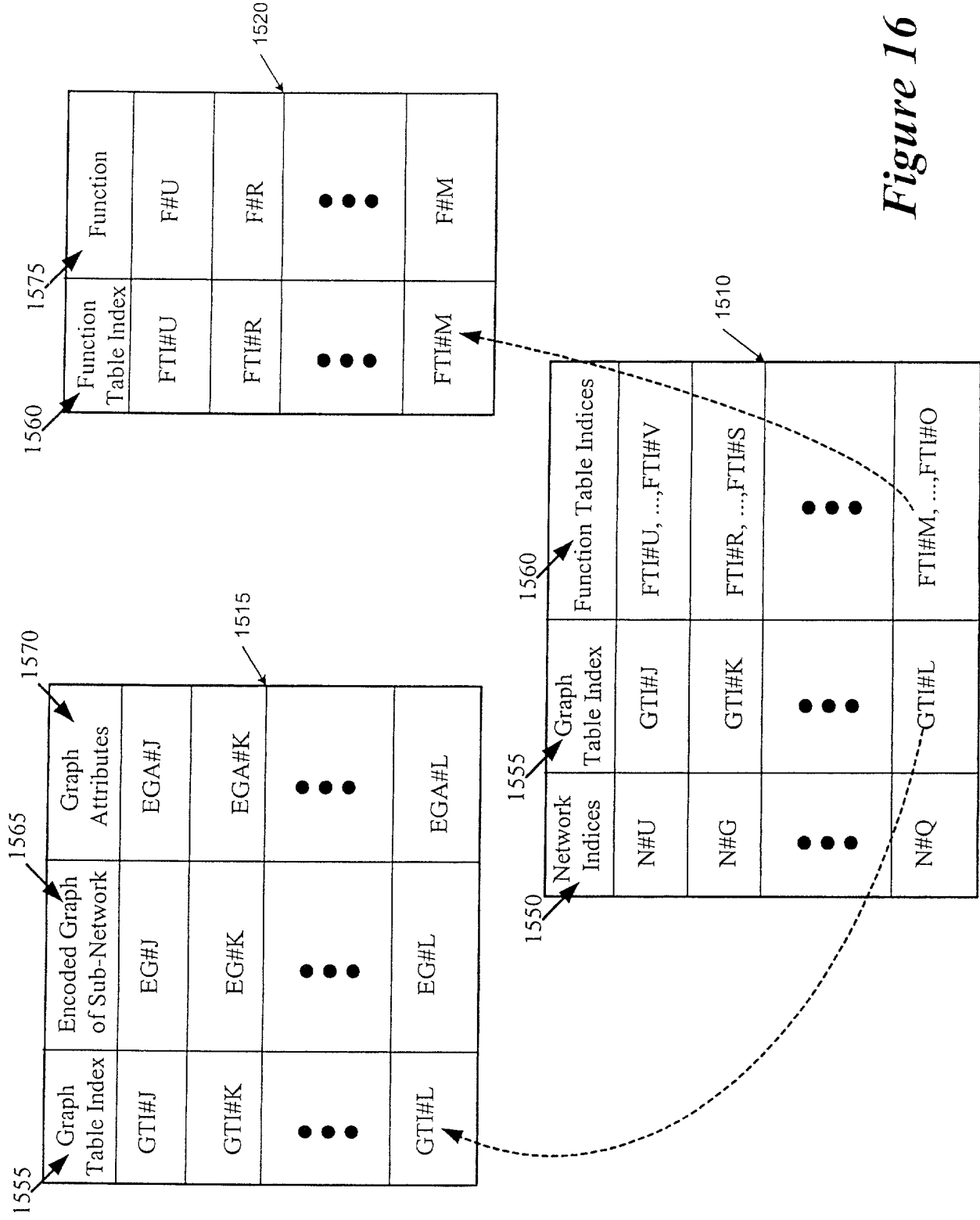


Figure 16

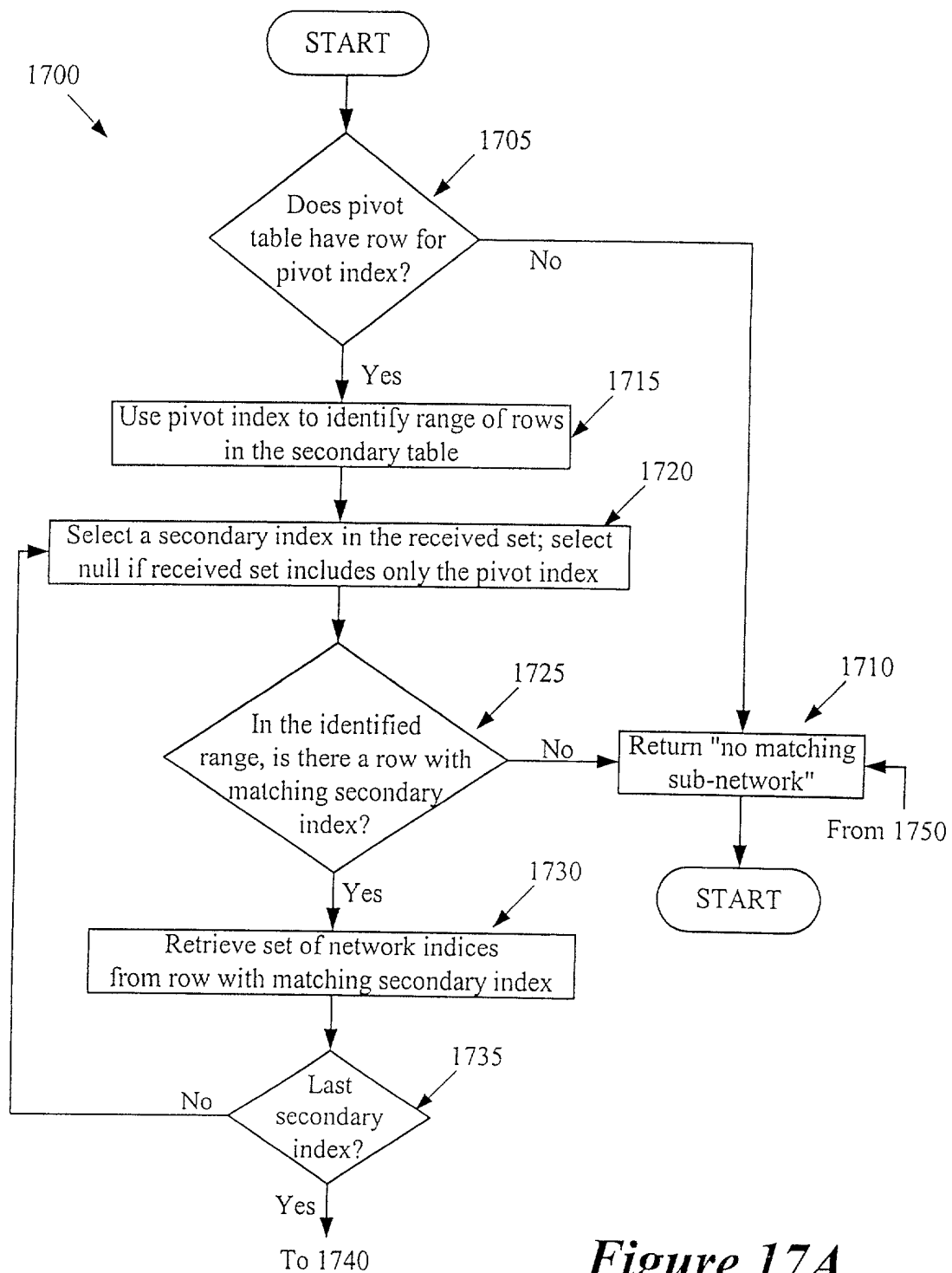


Figure 17A

Figure 17: $\frac{\text{Figure 17A}}{\text{Figure 17B}}$

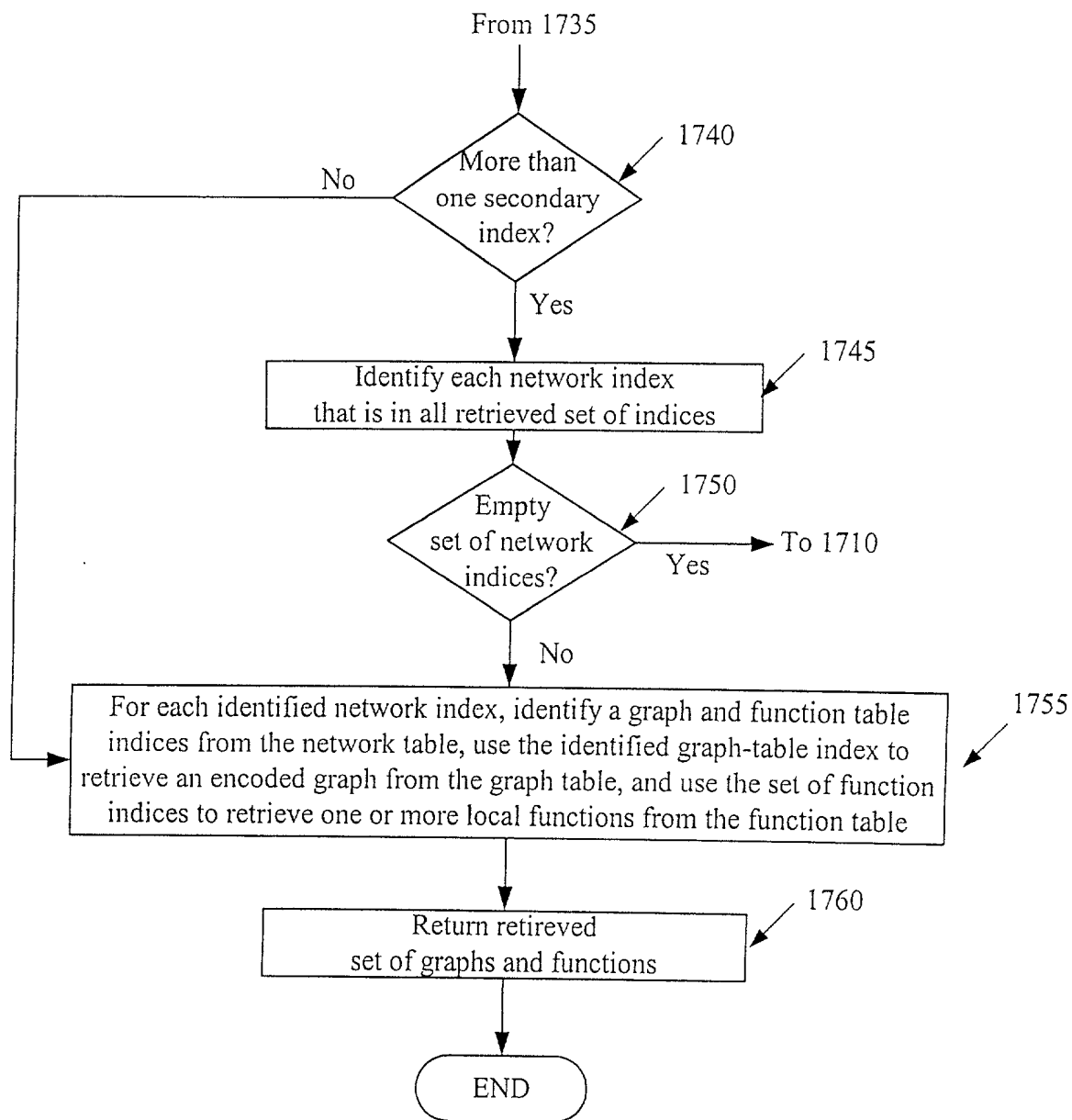


Figure 17B

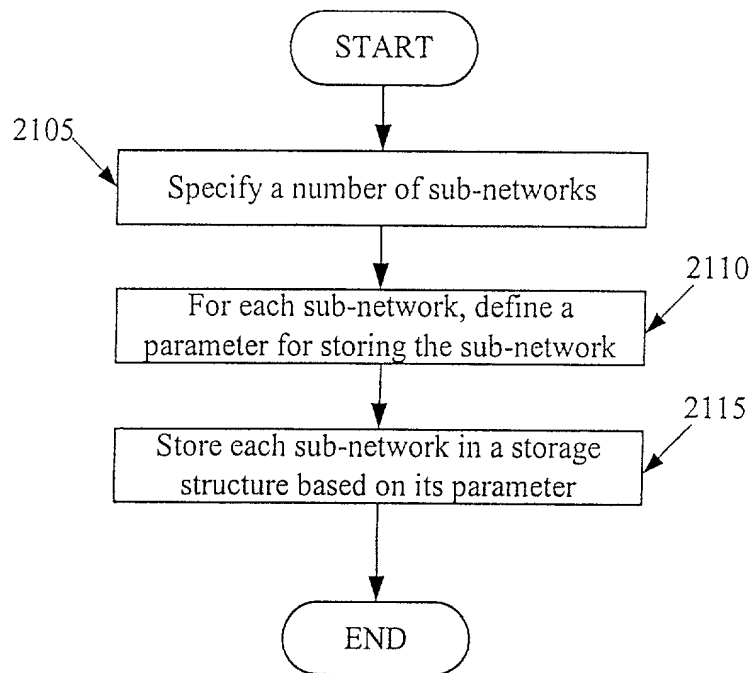


Figure 21

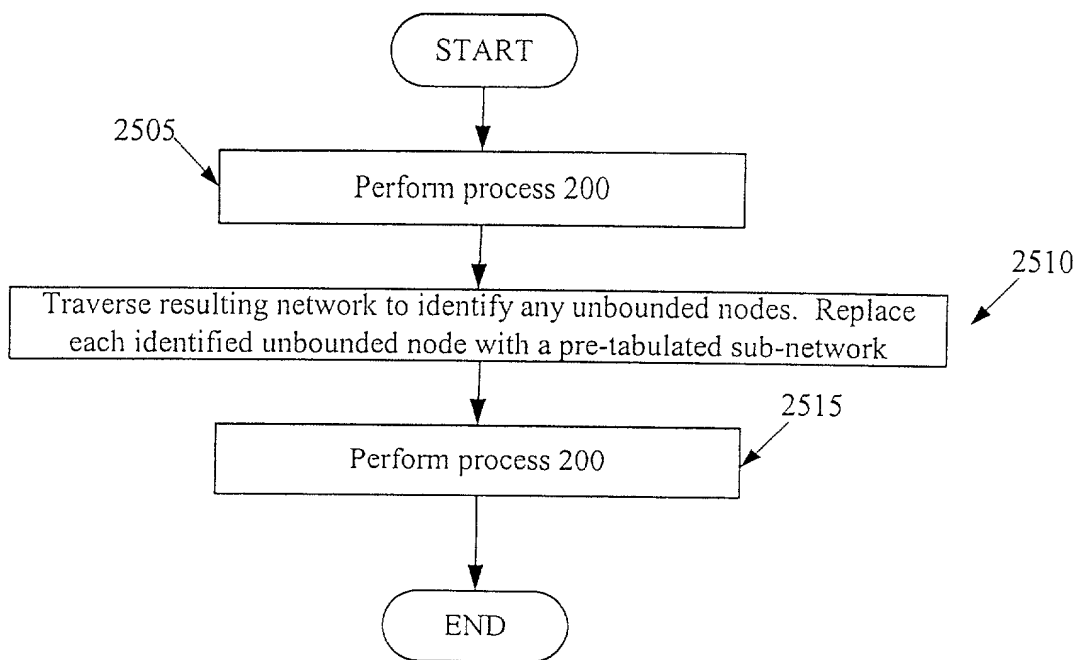


Figure 25

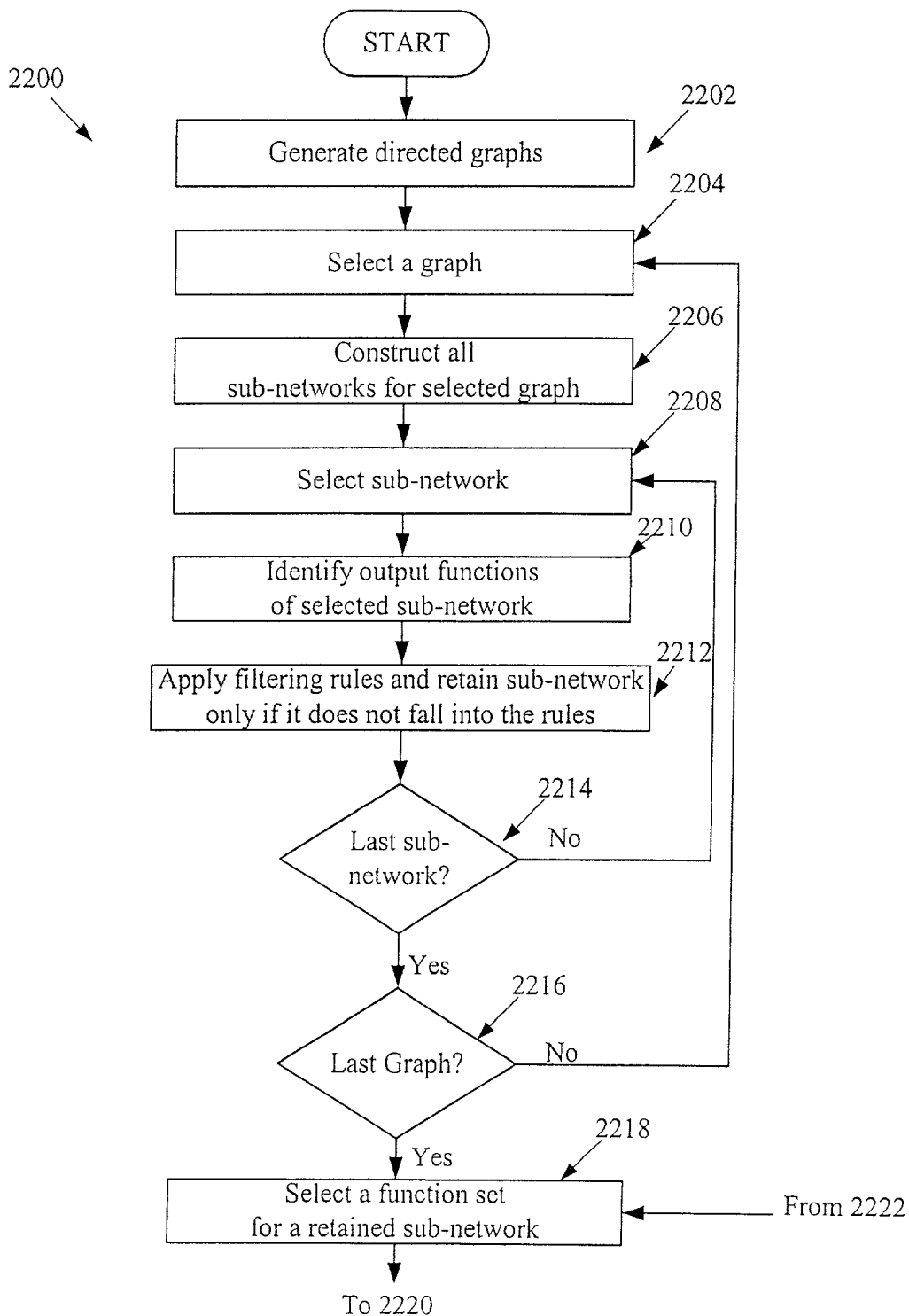


Figure 22A

Figure 22: Figure 22A
Figure 22B
Figure 22C

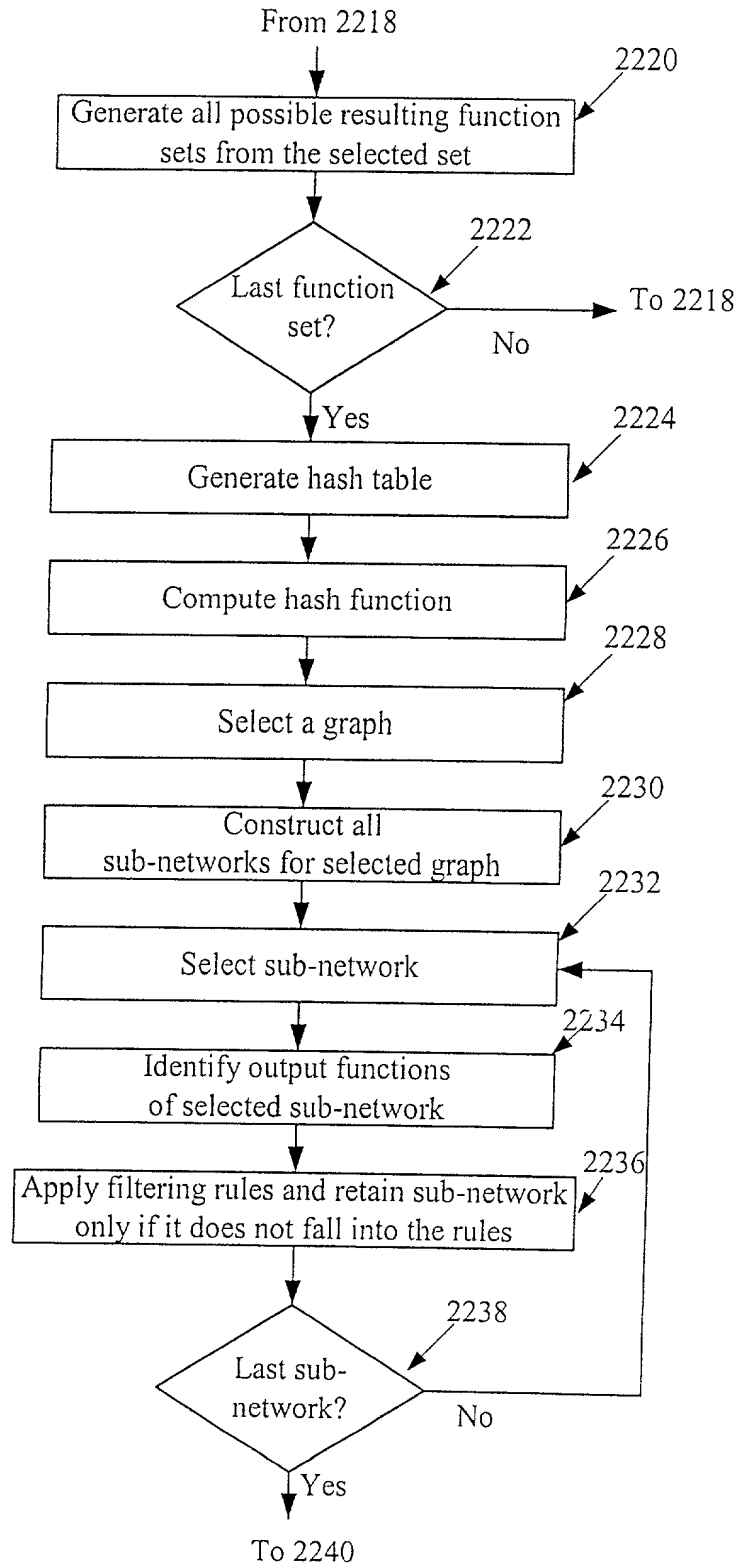


Figure 22B

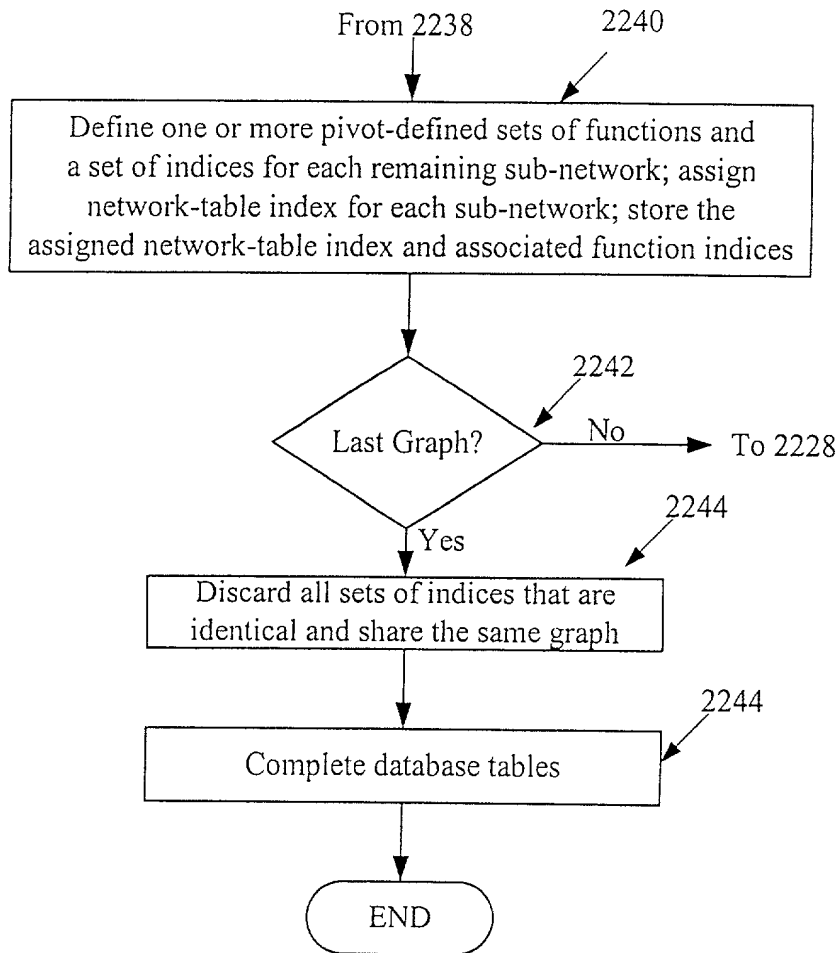


Figure 22C

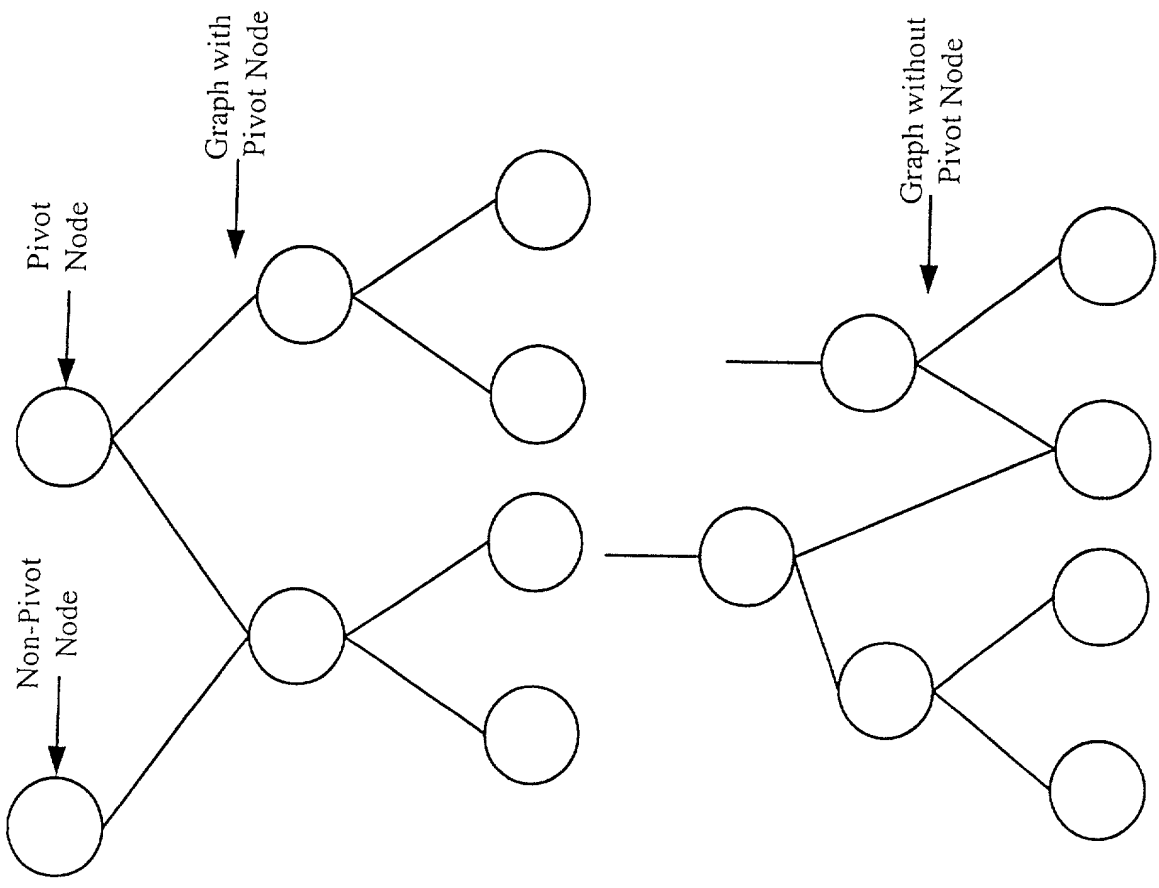


Figure 23

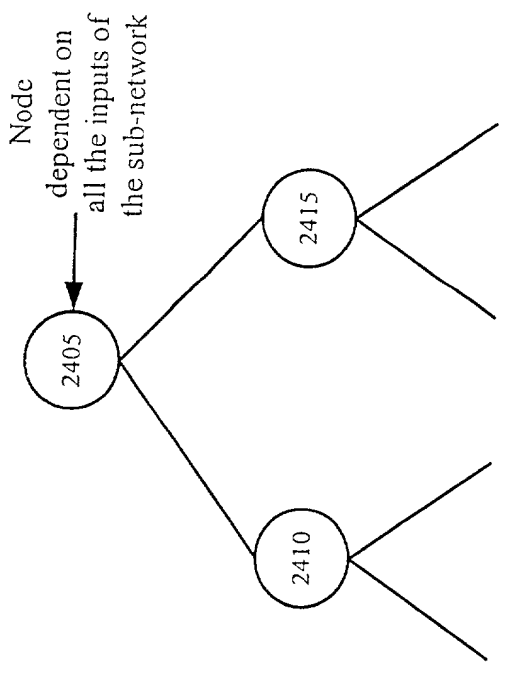


Figure 24

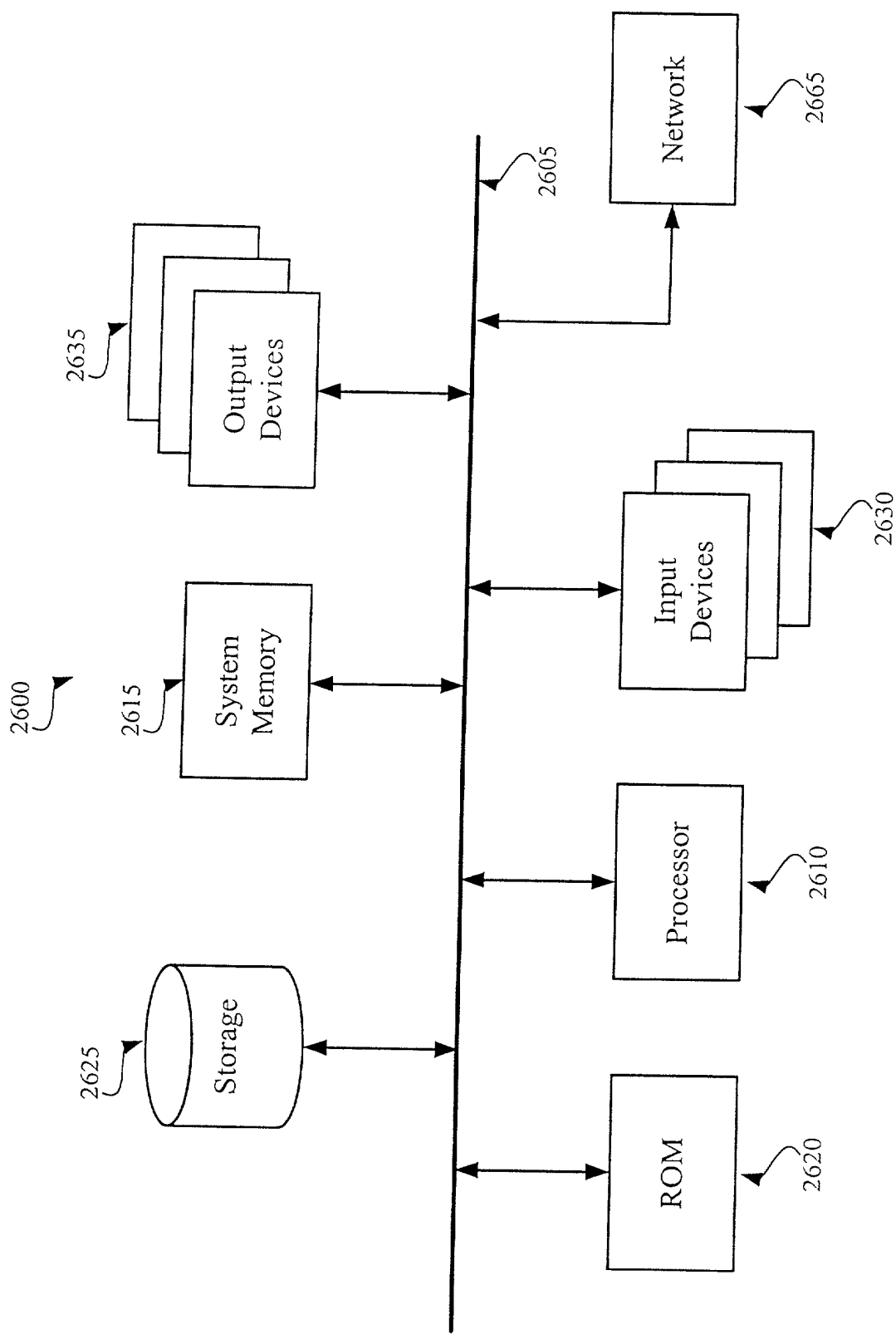


Figure 26